

Public Meeting on James River Tributaries in Albemarle and Buckingham Counties

August 10, 2006

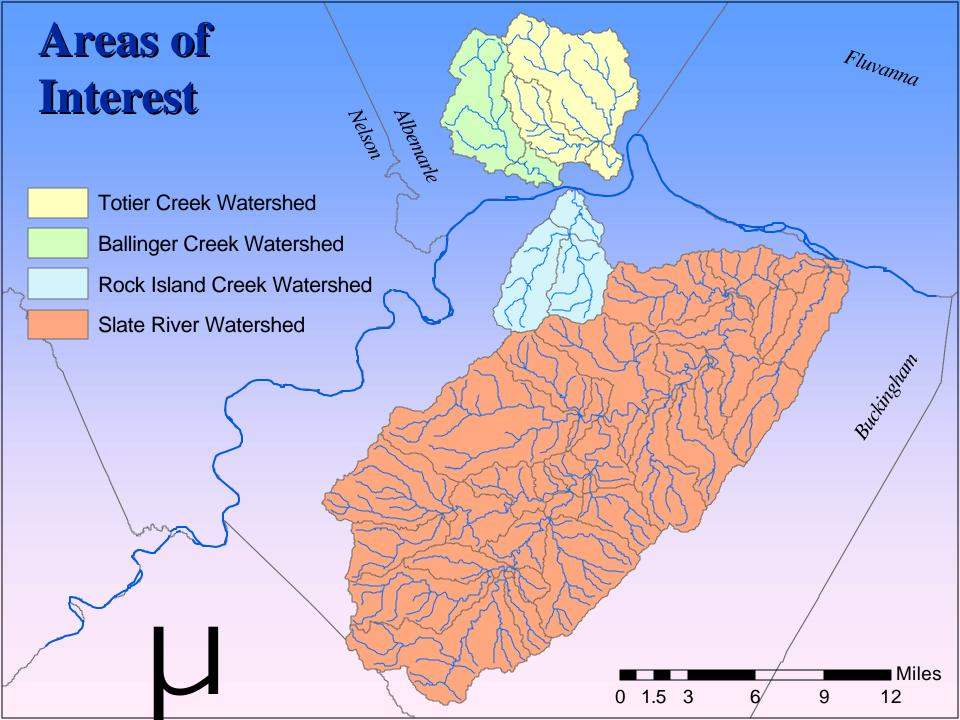


Why Are We Here?

- Learn about water quality in several James River tributaries
- Explain efforts that the State is undertaking to improve and protect water quality
- Learn what you can do to help

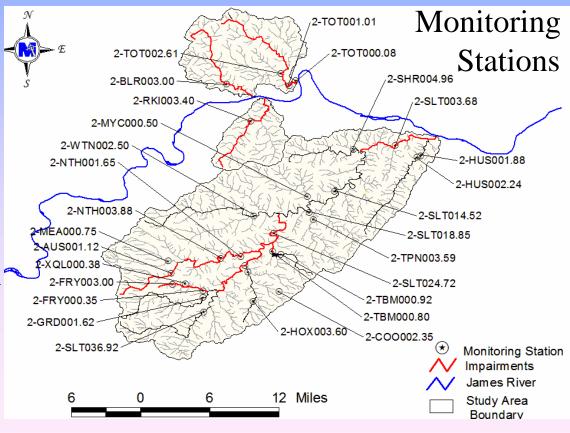


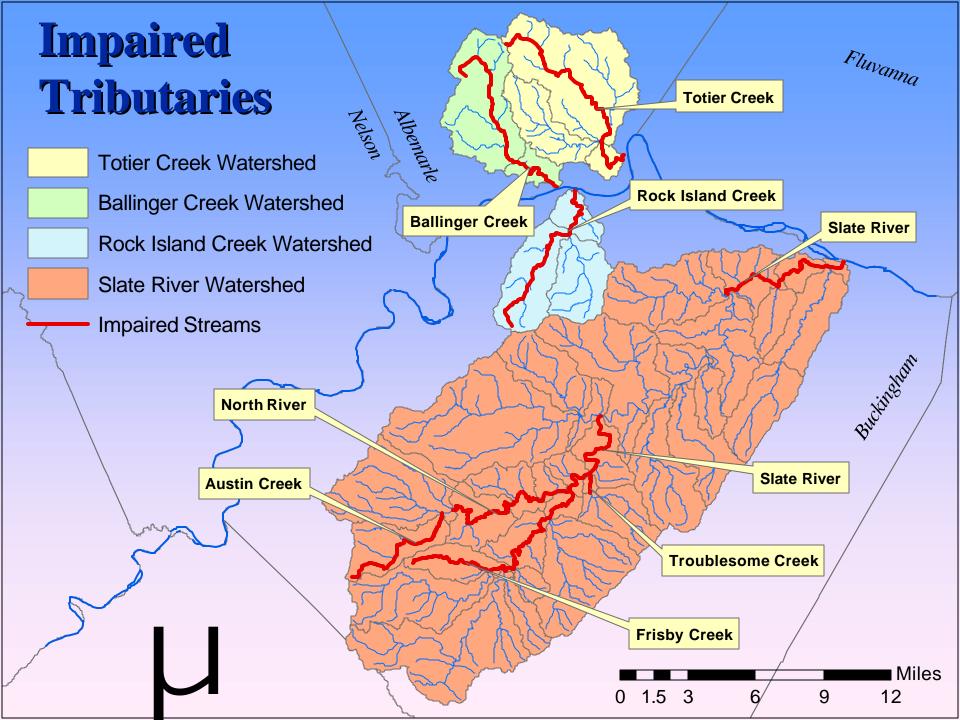




What's the Status of these Tributaries?

- DEQ routinely monitors the quality of waters across the state and reports those results every 2 years
- In the last report (2006), several James River tributaries in Albemarle and Buckingham Counties were listed as "impaired" by excess bacteria





Bacterial Impairment

What does impaired mean?

• More than 10% of samples collected exceeded State standards for bacteria

What is the standard?

• No more than 400 fecal coliforms per 100ml water (~1/2 cup)

 Fecal coliforms are indicators of human or animal waste



Why Are High Fecal Coliform Levels Bad?

• Presence of fecal coliforms indicate that other disease causing bacteria may be present

Human Health Concern

• Chance of gastrointestinal illness or infection during primary contact (e.g., water in mouth, nose, eyes, open wounds)

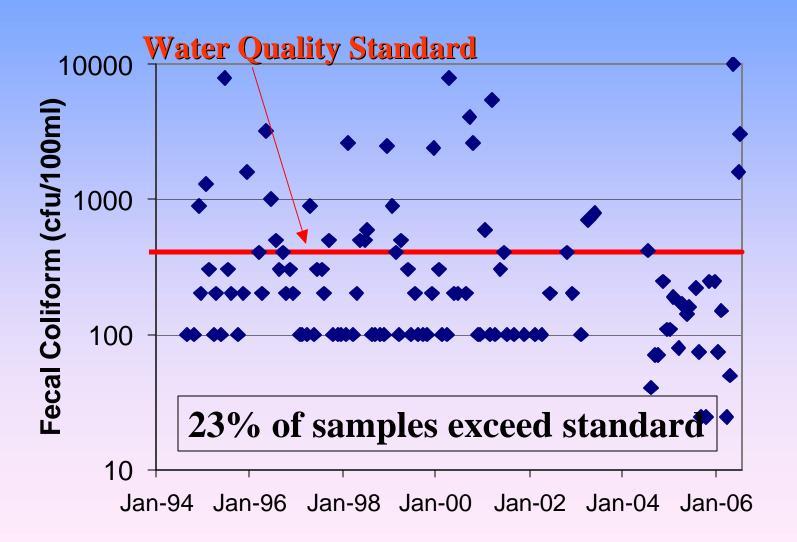
Other Concerns

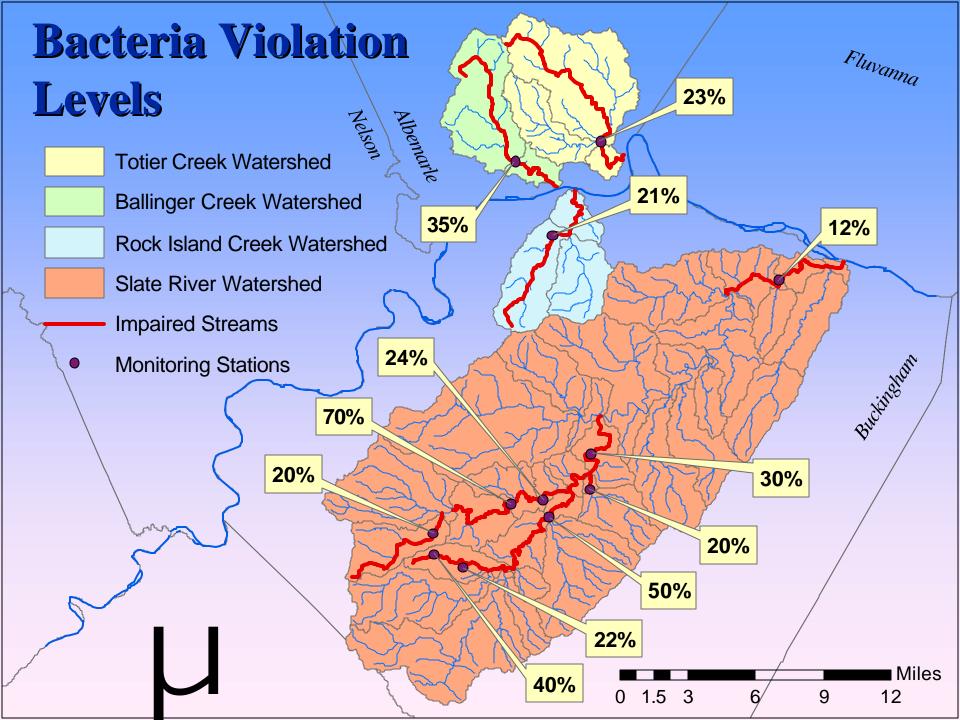
Livestock health and weight gain





What Are Bacteria Levels in Totier Creek?





What Happens When a Stream is Impaired?

• The State begins a formal process to clean up that water body (a TMDL)

Implementation Plan

We are here

Study



 Identifies permit controls or best management practices needed to make necessary pollutant reductions



Implementation

Total

Daily

Load

Maximum



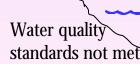
- Identifies sources of pollution
- Calculates amounts from each source
- Estimates necessary pollutant reductions





Water quality standards met



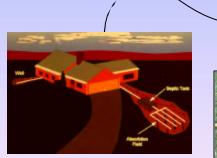




What are the Study Goals?



- Identify all sources of fecal bacteria
- Quantify amounts from each source
- Estimate reductions necessary to meet water quality standards











What is the Study Timeline?

1st Public Meeting

Develop computer model to simulate stream flow and bacteria

Use model to estimate necessary load reductions

Final
Public
Meeting

Jul.

Sept.

Nov.

Jan.

Mar.

Gather data (climate, landuse, soils, population, animal numbers, flow, etc.) Test computer model

Draft Study
Report available
for public
comment

Final
Report
submitted
to EPA

What Can You Do to Help?

- Participate on a Local Steering Committee
 - Group of local citizens, landowners, organizations, and government entities that will provide input, review and assistance to DEQ during the study
 - Goal make sure technical aspects of the study are accurate as well as acceptable to the community

Sign up tonight



What Else Can You Do to Help?

• Begin implementing best management practices (BMPs) that improve water quality

Urban Areas

- riparian buffers
- use fertilizers and pesticides sparingly
- never pour hazardous materials in storm drains
- disconnect roof drains from sanitary or storm sewers
- pick up pet wastes





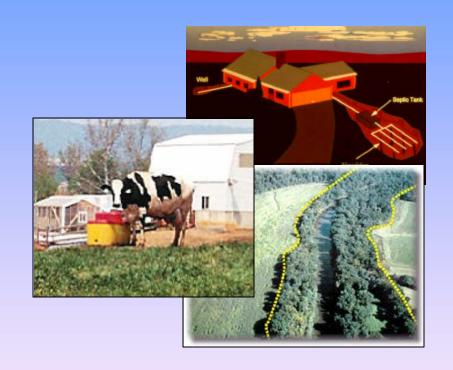




What Else Can You Do to Help?

Rural/Agricultural Areas

- riparian buffers
- septic pump-outs/repairs
- stream exclusion fencing
- alternative water systems
- rotational grazing
- nutrient management



 Contact local S&WCD about programs and funding for BMPs

Albemarle: (434) 975-0224

Buckingham: (434) 983-4757



Recap

- Bacterial impairments in several James River tributaries including:
 - Totier Creek, Ballinger Creek, Rock Island Creek, Slate River, Austin Creek, Frisby Branch, Troublesome Creek, North River
- DEQ is beginning a Water Quality Study to investigate these impairments
- Your help is needed on a local steering committee
- Study will be followed up by implementing voluntary improvements in the watershed with assistance from State

and Federal funds



Questions?

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• Comment period for this public meeting ends Sept. 11, 2006

